

RESAMPLER FOR A BIT PUMP AND METHOD OF RESAMPLING  
A SIGNAL ASSOCIATED THEREWITH

ABSTRACT OF THE DISCLOSURE

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A resampler, method of resampling a signal and a bit pump and transceiver employing the same. In one embodiment, the resampler includes an interpolation stage, coupled to an input of the resampler, that receives a one-bit input signal representing at least a portion of a receive signal propagating along a receive path of the bit pump and generates a plurality of intermediate samples from at least two input samples associated with the one-bit input signal. The resampler also includes a selection stage, coupled to the interpolation stage, that selects one of the plurality of intermediate samples thereby providing an output sample that corresponds to a phase of an oscillator associated with the bit pump.